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October 16, 2009

2009 OCT 20 A 10:22

BY COURIER

Michael Hom, Environmental Engineer
Clean Water Enforcement Branch
Water Protection Division
U.S. EPA Region 4
Atlanta Federal Center
61 Forsyth Street
Atlanta, Georgia 30303-8960

Re: October 6, 2009, Information Request – Section 308 of the Clean Water Act - Dalton Utilities Land Application System

Dear Mr. Hom:

Enclosed with this letter is information from Dalton Utilities in response to EPA's October 6, 2009, Section 308 of the Clean Water Act request (the "Request") addressed to Mr. Don Cope, President and CEO of Dalton Utilities. The enclosures include two October 14, 2009, letters with certifications signed pursuant to the Request and the information separately responsive to Paragraphs 2 and 4 of Enclosure A.

Please contact me if have any questions regarding the information supplied pursuant to the Request.

Sincerely,



Lee A. DeHihns, III

LAD:gba
Enclosures

LEGAL02/31578197v1



MM OCT 20 A 10:22

October 14, 2009

Mr. Michael Hom, Environmental Engineer
Clean Water Enforcement Branch
Water Protection Division
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW
Atlanta, GA 30303-8960

Re: Private Drinking Water Well Survey Results

Dear Mr. Hom,

In accordance with the Information Request pursuant to Section 308 of the Clean Water Act dated October 6, 2009, Dalton Utilities is submitting the final analytical results received to date for the Private Drinking Water Well Survey. The results are contained in Attachments A, B, C, D, E, F, G, H, I, J, K, and L which are provided herein as bound reports titled Test America Laboratories, Inc. Analytical Report on Perfluorocarbon (PFC) Analysis Lot # D9H110160 which contains 642 pages, Lot # D9H120160 which contains 230 pages, Lot # D9H150176 which contains 473 pages, Lot # D9H220152 which contains 480 pages, Lot # D9H250123 which contains 326 pages, Lot # D9H260198 which contains 331 pages, Lot # D9I010246 which contains 700 pages, Lot # D9I020235 which contains 387 pages, Lot # D9I040249 which contains 859 pages, Lot # D9I100275 which contains 276 pages, Lot # D9I120206 which contains 503 pages, and Lot # D9I150267 which contains 277 pages, respectively.

As stipulated in the aforementioned 308 letter, Dalton Utilities will provide additional results on the private drinking water well survey within five days of receiving the final analytical reports.

If you have any questions, please contact me at 706-529-1091 or dcope@dutil.com.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate,

Mr. Michael Hom
October 14, 2009
Page 2 of 2

and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Don Cope
President & CEO

Attachments (12)

- C: Dr. Carol Couch, Georgia Environmental Protection Division (cover letter only)
Dr. Marlin Gottschalk, Sustainability Division Georgia Department of Natural Resources (cover letter only)
Dr. Bert Langley, Georgia Environmental Protection Division (cover letter only)
Lee A. DeHihns, Esq.



THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

Perfluorocarbon (PFC) Analysis Private Wells

Lot #: D9H110160

Dena Haverland

Dalton Utilities
1200 V.D. Parrot Jr. Parkway
Dalton, GA 30721



A handwritten signature in black ink, appearing to read "Michelle A. Johnston".

Michelle A. Johnston
Project Manager

August 28, 2009

Case Narrative D9H110160

TestAmerica Denver utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameters listed on the methods summary page in accordance with the methods indicated. Dilution factors and footnotes are provided on each datasheet to assist in the interpretation of the results.

The results relate only to the samples in this report and meet all requirements of NELAC. All data have been reviewed for compliance with the laboratory QA/QC plan and have found to be compliant with laboratory protocols with any exceptions noted below.

Please note that Non-Detect (ND) results have been evaluated down to the Method Detection Limit (MDL) and should be considered ND at the MDL. Unless otherwise noted, results for solids have been dry weight corrected.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Sample Arrival and Receipt

The following report contains the analytical results for ten water samples received at TestAmerica Denver on August 11, 2009, according to documented sample acceptance procedures. The samples were received in good condition at a temperature of 0.8°C. No anomalies were encountered during sample receipt.

Standards

Analytical standards were prepared using commercially available certified solutions containing all compounds of interest.

The mass labeled compounds 13C4 PFBA, 13C2 PFHxA, 18O2 PFHxS, 13C4 PFOA, 13C4 PFOS, 13C5 PFNA, 13C2 PFDA, 13C2 PFUnA, 13C2 PFDoA, and D3 MeFOSA were introduced at the extraction step and were used for internal standards for the quantitation of the target compounds.

Sample Extraction and Analysis

The samples presented in this report were extracted for the target analytes by TestAmerica Denver's Standard Operating Procedure (SOP) DV-OP-0019 and analyzed for the target analytes by TestAmerica Denver's SOP DV-LC-0012.

Method QC Samples

The Method Blank is processed reagent water spiked with surrogate and prepared with each batch of 20 samples of the same matrix. The method blanks were non-detect at the reporting limits for the target analytes.

Each batch is prepared with low and mid level Laboratory Control Samples (LCS). The LCS recoveries for both levels were within established control limits, with the exception of the items noted in section Analytical Comments.

Analytical Comments

Please note during the FOSA extraction process samples #2 798 TARVIN RD, #3 797 TARVIN RD, #4 682 TARVIN RD, #5 479 BRACKETT RIDGE RD, #9 1204 BRACKETT RIDGE RD, and #10 135 ACORN RD clogged the cartridge; therefore, the organic preparation chemist had to

use two cartridges for each of these samples. The two cartridges for each sample were eluted and the extracts were n-evaped down to the correct volume.

The Standard Operating Procedure (SOP) was altered slightly for these ten samples in the sample preparation for FOSA. Sodium hydroxide was added to all ten samples to obtain a pH of 14 instead of the SOP required <2. The basic pH is generating better internal standard recoveries for Me FOSA.

Due to low internal standard recoveries in the original analyses, samples #1 7995 TARVIN RD, #2 798 TARVIN RD, #4 682 TARVIN RD, #5 479 BRACKETT RIDGE RD, and #7 483 BRACKETT RIDGE RD, were re-extracted out of the laboratory prescribed hold time and reanalyzed in QC batch 9232233, 9231231, or 9231216. Both sets of data are included in this report. Please note the sample results should be considered estimated.

The internal standard recoveries for 13C2 PFDoA were recovered below 50% in samples #1 7995 TARVIN RD and #10 135 ACORN RD in QC batch 9225453. Upon re-extraction past hold time and reanalysis in QC batch 9232233, surrogate recovery outliers were 100% in control in sample #1 7995 TARVIN RD. Upon re-extraction past hold time and reanalysis in QC batch 9231231, surrogate recovery outliers were still present in sample #10 135 ACORN RD, demonstrating this anomaly is most likely due to matrix interference. Both the original and reanalysis data have been provided for sample #1 7995 TARVIN RD, as re-extraction was unavoidably performed outside the laboratory recommended sample holding time. The original analysis data have been reported for sample #10 135 ACORN RD.

The internal standard recoveries for 13C2 PFUnA and 13C2 PFDoA were recovered below 50% in samples #2 798 TARVIN RD, #5 479 BRACKETT RIDGE RD, and #7 483 BRACKETT RIDGE RD in QC batch 9225453. Upon re-extraction past hold time and reanalysis in QC batches 9232233 and 9231231, surrogate recovery outliers were 100% in control for all three samples. Both the original and reanalysis data have been provided for these three samples, as re-extraction was unavoidably performed outside the laboratory recommended sample holding time.

The internal standard recoveries for 13C2 PFDA, 13C2 PFUnA, and 13C2 PFDoA were recovered below 50% in sample #9 1204 BRACKETT RIDGE RD in QC batch 9225453. Upon re-extraction past hold time and reanalysis in QC batch 9231231, surrogate recovery outliers were still present in the sample, demonstrating this anomaly is most likely due to matrix interference. The original analysis data have been reported.

The internal standard recoveries for Me FOSA were recovered below 50% in samples #2 798 TARVIN RD and #4 682 TARVIN RD in QC batch 9225452. Upon re-extraction past hold time and reanalysis in QC batch 9231216, surrogate recovery outliers were still present in sample #2 798 TARVIN RD, demonstrating this anomaly is most likely due to matrix interference. Upon re-extraction and reanalysis in QC batch 9231216, surrogate recoveries were 100% in control in sample #4 682 TARVIN RD. Both the original and reanalysis data have been provided for sample #4 682 TARVIN RD, as re-extraction was unavoidably performed outside the laboratory recommended sample holding time. The original analysis data have been reported for sample #2 798 TARVIN RD.

The internal standard recovery for 13C2 PFDoA was recovered below 50% in the method blank associated with QC batch 9231231. This is an indicator that data may be biased high. As no

Lot #: D9H110160

detectable concentrations are present in the associated samples, corrective action is deemed unnecessary.

The low-level LCS associated with QC batch 9231231 exhibited a percent recovery above the QC limits for Perfluorodecanoic acid (PFDa). This is an indicator that data may be biased high. As no detectable concentrations are present in the associated samples, corrective action is deemed unnecessary. Usability of the sample data is not compromised.

The method required MS/MSD could not be performed for QC batches 9225452, 9225453, 9231231, 9232233, and 9231216, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable low-level LCS and mid-level LCS/LCSD analyses data.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D9H110160

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
#2 798 TARVIN RD 08/07/09 09:15 002				
Perfluorobutanoic acid (PFBA)	0.0084 J	0.020	ug/L	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	0.016 J	0.030	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.013 J	0.020	ug/L	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	0.0067 J	0.020	ug/L	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	0.015 J	0.030	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.011 J	0.020	ug/L	DEN -LC-0012
#3 797 TARVIN RD 08/10/09 09:31 003				
Perfluoroctanoic Acid	0.011 J	0.020	ug/L	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	0.011 J	0.020	ug/L	DEN -LC-0012
Perfluoropentanoic acid (PFPA)	0.020 J	0.030	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.018 J	0.020	ug/L	DEN -LC-0012
#4 682 TARVIN RD 08/10/09 10:15 004				
Perfluorobutane sulfonate (PFB)	0.0054 J	0.020	ug/L	DEN -LC-0012
#9 1204 BRACKETT RIDGE RD 08/10/09 14:59 009				
Perfluoroctanoic Acid	0.020	0.020	ug/L	DEN -LC-0012
Perfluoroctanesulfonate	0.019 J	0.020	ug/L	DEN -LC-0012
Perfluorobutanoic acid (PFBA)	0.0078 J	0.020	ug/L	DEN -LC-0012
Perfluorohexanoic acid (PFHxA)	0.0075 J	0.020	ug/L	DEN -LC-0012

METHODS SUMMARY

D9H110160

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
LC/MS/MS PFCS	DEN -LC-0012	SW846 FOSA spec

References:

DEN Severn Trent Laboratores, Denver, Facility Standard
Operating Procedure.

METHOD / ANALYST SUMMARY

D9H110160

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
DEN -LC-0012	Jacqueline Bonnett	003601

References:

DEN Severn Trent Laboratores, Denver, Facility Standard
Operating Procedure.

SAMPLE SUMMARY

D9H110160

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LHX0D	001	#1 795 TARVIN RD	08/07/09	08:55
LHX0K	002	#2 798 TARVIN RD	08/07/09	09:15
LHX0M	003	#3 797 TARVIN RD	08/10/09	09:31
LHX0N	004	#4 682 TARVIN RD	08/10/09	10:15
LHX0P	005	#5 479 BRACKETT RIDGE RD	08/10/09	10:52
LHX0Q	006	#6 489 BRACKETT RIDGE RD	08/10/09	11:19
LHX0R	007	#7 483 BRACKETT RIDGE RD	08/10/09	11:47
LHX0T	008	#8 615 TARVIN RD	08/10/09	12:12
LHX0V	009	#9 1204 BRACKETT RIDGE RD	08/10/09	14:59
LHX0W	010	#10 135 ACORN RD	08/10/09	15:49

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Dalton Utilities

Client Sample ID: #1 795 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-001 Work Order #....: LHX0D1AA Matrix.....: WATER
Date Sampled....: 08/07/09 08:55 Date Received...: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #....: 9225452 Analysis Time...: 17:53
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY		
MeFOSA	RECOVERY	LIMITS		
	78	(50 - 200)		

Dalton Utilities

Client Sample ID: #1 795 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-001 Work Order #....: LHX0D1AC Matrix.....: WATER
 Date Sampled....: 08/07/09 08:55 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 06:33
 Dilution Factor: 1 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0025
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.0040
Perfluorotridecanoic acid (PFT ria)	ND	0.020	ug/L	0.0072
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.0087
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0045
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0084

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	95	(50	- 200)
13C4 PFOS	60	(50	- 200)
13C4 PFBA	76	(50	- 200)
13C2 PFHxA	98	(50	- 200)
18O2 PFHxS	84	(50	- 200)
13C5 PFNA	77	(50	- 200)
13C2 PFDA	57	(50	- 200)
13C2 PFUnA	51	(50	- 200)
13C2 PFDoA	46 *	(50	- 200)

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #1 795 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-001 Work Order #....: LHX0D2AC Matrix.....: WATER
 Date Sampled....: 08/07/09 08:55 Date Received...: 08/11/09
 Prep Date.....: 08/20/09 Analysis Date...: 08/21/09
 Prep Batch #....: 9232233 Analysis Time...: 21:46
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0025
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.0040
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.0072
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.0087
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0045
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0084
xS)				

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u>
		<u>LIMITS</u>
13C4 PFOA	106	(50 - 200)
13C4 PFOS	66	(50 - 200)
13C4 PFBA	77	(50 - 200)
13C2 PFHxA	92	(50 - 200)
18O2 PFHxS	82	(50 - 200)
13C5 PFNA	82	(50 - 200)
13C2 PFDA	65	(50 - 200)
13C2 PFUnA	58	(50 - 200)
13C2 PFDoA	58	(50 - 200)

Dalton Utilities

Client Sample ID: #2 798 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-002 Work Order #....: LHX0K1AA Matrix.....: WATER
 Date Sampled....: 08/07/09 09:15 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
 Prep Batch #....: 9225452 Analysis Time...: 18:00
 Dilution Factor: 1 Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	
		<u>RECOVERY</u>	<u>LIMITS</u>
MeFOSA	43 *	(50 - 200)	

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #2 798 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-002 Work Order #....: LHX0K1AC Matrix.....: WATER
 Date Sampled....: 08/07/09 09:15 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 06:49
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	0.0084 J	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	0.016 J	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	0.013 J	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0025
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.0040
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.0072
ria)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.0087
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0045
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0084
xS)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	95	(50	- 200)
13C4 PFOS	57	(50	- 200)
13C4 PFBA	91	(50	- 200)
13C2 PFHxA	96	(50	- 200)
18O2 PFHxS	85	(50	- 200)
13C5 PFNA	81	(50	- 200)
13C2 PFDA	57	(50	- 200)
13C2 PFUnA	48 *	(50	- 200)
13C2 PFDoA	46 *	(50	- 200)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: #2 798 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-002 Work Order #....: LHX0K2AC Matrix.....: WATER
 Date Sampled....: 08/07/09 09:15 Date Received...: 08/11/09
 Prep Date.....: 08/20/09 Analysis Date...: 08/21/09
 Prep Batch #....: 9232233 Analysis Time...: 22:02
 Dilution Factor: 1
 Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	0.0067 J	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	0.015 J	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	0.011 J	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0025
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.0040
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.0072
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.0087
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0045
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0084
xS)				

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u>	
		<u>LIMITS</u>	
13C4 PFOA	108	(50	- 200)
13C4 PFOS	64	(50	- 200)
13C4 PFBA	94	(50	- 200)
13C2 PFHxA	99	(50	- 200)
18O2 PFHxS	86	(50	- 200)
13C5 PFNA	83	(50	- 200)
13C2 PFDA	62	(50	- 200)
13C2 PFUnA	55	(50	- 200)
13C2 PFDoA	62	(50	- 200)

NOTE (S) :

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: #3 797 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-003 Work Order #....: LHX0M1AA Matrix.....: WATER
Date Sampled....: 08/10/09 09:31 Date Received...: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #....: 9225452 Analysis Time...: 18:07
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT RECOVERY	RECOVERY	LIMITS	
MeFOSA	57	(50 - 200)		

Dalton Utilities

Client Sample ID: #3 797 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-003 Work Order #....: LHX0M1AC Matrix.....: WATER
 Date Sampled....: 08/10/09 09:31 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 07:05
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	0.011 J	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	0.011 J	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	0.020 J	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	0.018 J	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0025
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.0040
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.0072
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.0087
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0045
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0084
xS)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	98	(50	- 200)
13C4 PFOS	58	(50	- 200)
13C4 PFBA	90	(50	- 200)
13C2 PFHxA	94	(50	- 200)
18O2 PFHxS	87	(50	- 200)
13C5 PFNA	75	(50	- 200)
13C2 PFDA	54	(50	- 200)
13C2 PFUnA	54	(50	- 200)
13C2 PFDoA	55	(50	- 200)

NOTE(S) :

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: #4 682 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-004 Work Order #....: LHX0N1AA Matrix.....: WATER
Date Sampled....: 08/10/09 10:15 Date Received...: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #....: 9225452 Analysis Time...: 18:14
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE		PERCENT	RECOVERY	
MeFOSA		RECOVERY	LIMITS	
		46 *	(50 - 200)	

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #4 682 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-004 Work Order #....: LHX0N1AC Matrix.....: WATER
 Date Sampled...: 08/10/09 10:15 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 07:21
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluoroctanoic Acid	ND	0.020	ug/L	0.0055
Perfluoroctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0025
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.0040
Perfluorotridecanoic acid (PFT ria)	ND	0.020	ug/L	0.0072
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.0087
Perfluorobutane sulfonate (PFB S)	0.0054 J	0.020	ug/L	0.0045
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0084

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	RECOVERY	
		<u>LIMITS</u>	
13C4 PFOA	108	(50	- 200)
13C4 PFOS	72	(50	- 200)
13C4 PFBA	97	(50	- 200)
13C2 PFHxA	100	(50	- 200)
18O2 PFHxS	95	(50	- 200)
13C5 PFNA	87	(50	- 200)
13C2 PFDA	67	(50	- 200)
13C2 PFUnA	66	(50	- 200)
13C2 PFDmA	69	(50	- 200)

NOTE(S) :

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: #4 682 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-004 Work Order #....: LHX0N2AA Matrix.....: WATER
Date Sampled....: 08/10/09 10:15 Date Received..: 08/11/09
Prep Date.....: 08/20/09 Analysis Date..: 08/22/09
Prep Batch #....: 9231216 Analysis Time..: 00:46
Dilution Factor: 1 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY	LIMITS	
MeFOSA	50	(50 - 200)		

Dalton Utilities

Client Sample ID: #5 479 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-005 Work Order #....: LHX0P1AA Matrix.....: WATER
Date Sampled...: 08/10/09 10:52 Date Received..: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #....: 9225452 Analysis Time...: 18:31
Dilution Factor: 1 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY	LIMITS	
MeFOSA	RECOVERY	(50 - 200)		
	83			

Dalton Utilities

Client Sample ID: #5 479 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-005 Work Order #....: LHX0P1AC Matrix.....: WATER
 Date Sampled....: 08/10/09 10:52 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 07:37
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroctanoic Acid	ND	0.020	ug/L	0.0055
Perfluoroctanesulfonate	ND	0.020	ug/L	0.0068
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0025
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.0040
Perfluorotridecanoic acid (PFT ria)	ND	0.020	ug/L	0.0072
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.0087
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0045
Perfluorohexane sulfonate (PFH xs)	ND	0.030	ug/L	0.0084

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	95	(50	- 200)
13C4 PFOS	52	(50	- 200)
13C4 PFBA	86	(50	- 200)
13C2 PFHxA	88	(50	- 200)
18O2 PFHxS	82	(50	- 200)
13C5 PFNA	71	(50	- 200)
13C2 PFDA	50	(50	- 200)
13C2 PFUnA	45 *	(50	- 200)
13C2 PFDoA	42 *	(50	- 200)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

Dalton Utilities



Client Sample ID: #5 479 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-005 Work Order #....: LHX0P2AC Matrix.....: WATER
 Date Sampled....: 08/10/09 10:52 Date Received...: 08/11/09
 Prep Date.....: 08/19/09 Analysis Date...: 08/21/09
 Prep Batch #....: 9231231 Analysis Time...: 15:35
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0025
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.0040
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.0072
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.0087
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0045
Perfluorohexane sulfonate (PFH xS)	ND	0.030	ug/L	0.0084

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	111	(50	- 200)
13C4 PFOS	80	(50	- 200)
13C4 PFBA	80	(50	- 200)
13C2 PFHxA	83	(50	- 200)
18O2 PFHxS	90	(50	- 200)
13C5 PFNA	82	(50	- 200)
13C2 PFDA	74	(50	- 200)
13C2 PFUnA	70	(50	- 200)
13C2 PFDoA	59	(50	- 200)

Dalton Utilities

Client Sample ID: #6 489 BRACKETT RIDGE RD

HPLC

Lot-Sample #: D9H110160-006 Work Order #: LHX0Q1AA Matrix.....: WATER
Date Sampled...: 08/10/09 11:19 Date Received...: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #: 9225452 Analysis Time...: 18:38
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT RECOVERY	RECOVERY	LIMITS	
MeFOSA	55	(50 - 200)		

Dalton Utilities



Client Sample ID: #6 489 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-006 Work Order #....: LHX0Q1AC Matrix.....: WATER
 Date Sampled...: 08/10/09 11:19 Date Received..: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time..: 08:10
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluoroctanoic Acid	ND	0.020	ug/L	0.0055
Perfluoroctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0025
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.0040
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.0072
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.0087
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0045
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0084
xS)				

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u>	
		<u>LIMITS</u>	
13C4 PFOA	102	(50 - 200)	
13C4 PFOS	58	(50 - 200)	
13C4 PFBA	87	(50 - 200)	
13C2 PFHxA	93	(50 - 200)	
18O2 PFHxS	86	(50 - 200)	
13C5 PFNA	74	(50 - 200)	
13C2 PFDA	54	(50 - 200)	
13C2 PFUnA	51	(50 - 200)	
13C2 PFDoA	51	(50 - 200)	

Dalton Utilities

Client Sample ID: #7 483 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-007 Work Order #....: LHX0R1AA Matrix.....: WATER
Date Sampled...: 08/10/09 11:47 Date Received...: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #....: 9225452 Analysis Time...: 18:45
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY		
MeFOSA	RECOVERY	LIMITS		
	52	(50 - 200)		

Dalton Utilities



Client Sample ID: #7 483 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-007 Work Order #....: LHX0R1AC Matrix.....: WATER
 Date Sampled....: 08/10/09 11:47 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 08:26
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0025
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.0040
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.0072
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.0087
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0045
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0084
xS)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	96	(50	- 200)
13C4 PFOS	53	(50	- 200)
13C4 PFBA	87	(50	- 200)
13C2 PFHxA	89	(50	- 200)
18O2 PFHxS	84	(50	- 200)
13C5 PFNA	71	(50	- 200)
13C2 PFDA	50	(50	- 200)
13C2 PFUnA	47 *	(50	- 200)
13C2 PFDoA	45 *	(50	- 200)

NOTE (S) :

* Surrogate recovery is outside stated control limits.

Dalton Utilities

Client Sample ID: #7 483 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-007 Work Order #....: LHX0R2AC Matrix.....: WATER
 Date Sampled....: 08/10/09 11:47 Date Received...: 08/11/09
 Prep Date.....: 08/19/09 Analysis Date...: 08/21/09
 Prep Batch #....: 9231231 Analysis Time...: 15:51
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluoroctanoic Acid	ND	0.020	ug/L	0.0055
Perfluoroctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0025
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.0040
Perfluorotridecanoic acid (PFT ria)	ND	0.020	ug/L	0.0072
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.0087
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0045
Perfluorohexane sulfonate (PFH xs)	ND	0.030	ug/L	0.0084

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY</u>
		<u>LIMITS</u>
13C4 PFOA	117	(50 - 200)
13C4 PFOS	81	(50 - 200)
13C4 PFBA	77	(50 - 200)
13C2 PFHxA	83	(50 - 200)
18O2 PFHxS	92	(50 - 200)
13C5 PFNA	80	(50 - 200)
13C2 PFDA	71	(50 - 200)
13C2 PFUnA	67	(50 - 200)
13C2 PFDoA	52	(50 - 200)

Dalton Utilities

Client Sample ID: #8 615 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-008 Work Order #....: LHX0T1AA Matrix.....: WATER
Date Sampled....: 08/10/09 12:12 Date Received...: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #....: 9225452 Analysis Time...: 18:52
Dilution Factor: 1 Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	(50 - 200)
MeFOSA	71		

Dalton Utilities

Client Sample ID: #8 615 TARVIN RD

HPLC

Lot-Sample #....: D9H110160-008 Work Order #....: LHX0T1AC Matrix.....: WATER
 Date Sampled....: 08/10/09 12:12 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 08:42
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0025
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.0040
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.0072
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.0087
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0045
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0084
xS)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	103	(50	- 200)
13C4 PFOS	68	(50	- 200)
13C4 PFBA	62	(50	- 200)
13C2 PFHxA	94	(50	- 200)
18O2 PFHxS	89	(50	- 200)
13C5 PFNA	86	(50	- 200)
13C2 PFDA	64	(50	- 200)
13C2 PFUnA	57	(50	- 200)
13C2 PFDoA	53	(50	- 200)

Dalton Utilities

Client Sample ID: #9 1204 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-009 Work Order #....: LHX0V1AA Matrix.....: WATER
Date Sampled...: 08/10/09 14:59 Date Received...: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #....: 9225452 Analysis Time...: 19:07
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY		
MeFOSA	RECOVERY	LIMITS		
	58	(50 - 200)		

Dalton Utilities

Client Sample ID: #9 1204 BRACKETT RIDGE RD

HPLC

Lot-Sample #....: D9H110160-009 Work Order #....: LHX0V1AC Matrix.....: WATER
 Date Sampled....: 08/10/09 14:59 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 08:58
 Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctanoic Acid	0.020	0.020	ug/L	0.0055
Perfluorooctanesulfonate	0.019 J	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	0.0078 J	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	0.0075 J	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
)				
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn	ND	0.020	ug/L	0.0025
A)				
Perfluorododecanoic acid (PFDo	ND	0.020	ug/L	0.0040
A)				
Perfluorotridecanoic acid (PFT	ND	0.020	ug/L	0.0072
riA)				
Perfluorotetradecanoic acid (P	ND	0.020	ug/L	0.0087
FTeA)				
Perfluorobutane sulfonate (PFB	ND	0.020	ug/L	0.0045
S)				
Perfluorohexane sulfonate (PFH	ND	0.030	ug/L	0.0084
xs)				

SURROGATE	PERCENT RECOVERY	RECOVERY	
		LIMITS	
13C4 PFOA	88	(50	- 200)
13C4 PFOS	56	(50	- 200)
13C4 PFBA	79	(50	- 200)
13C2 PFHxA	84	(50	- 200)
18O2 PFHxS	78	(50	- 200)
13C5 PFNA	65	(50	- 200)
13C2 PFDA	48 *	(50	- 200)
13C2 PFUnA	48 *	(50	- 200)
13C2 PFDoA	46 *	(50	- 200)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

Dalton Utilities

Client Sample ID: #10 135 ACORN RD

HPLC

Lot-Sample #....: D9H110160-010 Work Order #....: LHX0W1AA Matrix.....: WATER
Date Sampled....: 08/10/09 15:49 Date Received...: 08/11/09
Prep Date.....: 08/13/09 Analysis Date...: 08/16/09
Prep Batch #....: 9225452 Analysis Time...: 19:14
Dilution Factor: 1

Method.....: DEN -LC-0012

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Perfluorooctane sulfonamide (F OSA)	ND	0.050	ug/L	0.0057
SURROGATE	PERCENT	RECOVERY	LIMITS	
MeFOSA	RECOVERY	(50 - 200)		
	65			

Dalton Utilities

Client Sample ID: #10 135 ACORN RD

HPLC

Lot-Sample #....: D9H110160-010 Work Order #....: LHX0W1AC Matrix.....: WATER
 Date Sampled....: 08/10/09 15:49 Date Received...: 08/11/09
 Prep Date.....: 08/13/09 Analysis Date...: 08/17/09
 Prep Batch #....: 9225453 Analysis Time...: 09:14
 Dilution Factor: 1

Method.....: DEN -LC-0012

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
Perfluorooctanoic Acid	ND	0.020	ug/L	0.0055
Perfluorooctanesulfonate	ND	0.020	ug/L	0.0068
Perfluorobutanoic acid (PFBA)	ND	0.020	ug/L	0.0062
Perfluoropentanoic acid (PFPA)	ND	0.030	ug/L	0.0082
Perfluorohexanoic acid (PFHxA)	ND	0.020	ug/L	0.0030
Perfluoroheptanoic acid (PFHpA)	ND	0.020	ug/L	0.0054
Perfluorononanoic acid (PFNA)	ND	0.020	ug/L	0.0065
Perfluorodecanoic acid (PFDA)	ND	0.020	ug/L	0.0026
Perfluoroundecanoic acid (PFUn A)	ND	0.020	ug/L	0.0025
Perfluorododecanoic acid (PFDo A)	ND	0.020	ug/L	0.0040
Perfluorotridecanoic acid (PFT riA)	ND	0.020	ug/L	0.0072
Perfluorotetradecanoic acid (P FTeA)	ND	0.020	ug/L	0.0087
Perfluorobutane sulfonate (PFB S)	ND	0.020	ug/L	0.0045
Perfluorohexane sulfonate (PFH xs)	ND	0.030	ug/L	0.0084

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C4 PFOA	99	(50 - 200)
13C4 PFOS	60	(50 - 200)
13C4 PFBA	92	(50 - 200)
13C2 PFHxA	91	(50 - 200)
18O2 PFHxS	89	(50 - 200)
13C5 PFNA	70	(50 - 200)
13C2 PFDA	54	(50 - 200)
13C2 PFUnA	52	(50 - 200)
13C2 PFDoA	49 *	(50 - 200)

NOTE(S) :

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

D9H110160

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
	WATER	DEN -LC-0012		9232233	
002	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
	WATER	DEN -LC-0012		9232233	
003	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
004	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
	WATER	DEN -LC-0012		9231216	
005	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
	WATER	DEN -LC-0012		9231231	
006	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
007	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
	WATER	DEN -LC-0012		9231231	
008	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
009	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	
010	WATER	DEN -LC-0012		9225452	
	WATER	DEN -LC-0012		9225453	